

Our Scientists at Work: Programs, People, Facilities



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Our Scientists at Work: Programs, People, Facilities

Our research work units (RWUs) are located in offices and laboratories in nine States across the Southern United States. Our research and development work covers 13 Southern States, with findings that are applicable throughout the Nation and internationally. While each RWU has a central location, listed below, subunits or individual scientists are located at additional sites in 11 Southern States. The SRS RWUs are identified by name and a four-digit number, for example, SRS-4505, Insects and Diseases of Southern Forests. The numbers provide helpful internal shorthand for budget and cross-referencing purposes. Our Directory of Research Scientists, which includes more detail about the expertise of each scientist, is located on our Web site at: <http://www.srs.fs.fed.us/staff/scientist/index.htm>

SRS-4105 and SRS-4703

G.W. Andrews Forestry Sciences Laboratory
520 Devall Drive
Auburn, AL 36849 • (334) 826-8700

The G.W. Andrews Forestry Science Laboratory is located on the campus of Auburn University. The modern office and laboratory facility contains well-equipped environmental chemistry and soil laboratories and a large engineering research laboratory. Adjacent buildings house greenhouse, shop, warehouse, and chemical storage facilities.

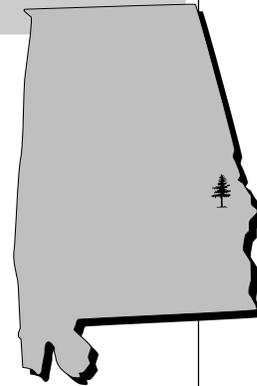
SRS-4105, Vegetation Management Research and Longleaf Pine Research for Southern Forest Ecosystems.

The mission of this unit is to: 1) determine the environmental fate and impact of forest herbicides and develop integrated vegetation prescriptions for multiple resource benefits in southern forestry; and 2) develop systems and models for the development of a variety of regeneration and management alternatives for

longleaf pine ecosystems. Long-term longleaf studies and demonstrations are maintained on the 3,000-acre Escambia Experimental Forest in south Alabama.

SRS-4703, Biological/Engineering Systems and Technologies for Ecological Management of Forest Resources.

The mission of this unit is to develop an understanding of the interaction between biological and engineering systems in forest ecosystems and to provide engineering knowledge and improved, economically viable forest operations for sustained resource management.



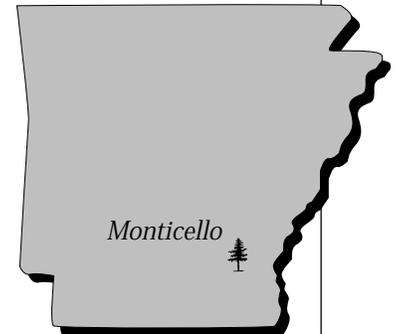
Auburn

Web site for SRS-4703: <http://www.srs.fs.fed.us/forestops/>

Our Scientists at Work: Programs, People, Facilities

SRS-4106

**Forest Resources Building
University of Arkansas at Monticello
P.O. Box 3516, Room 211
Monticello, AR 71656-3516
(870) 367-3464**



The Monticello facility is located at the University of Arkansas, in cooperation with the School of Forest Resources and the Arkansas Agricultural Experiment Station. The 1,675-acre Crossett Experimental Forest, located 7 miles south of Crossett, is maintained as a research and demonstration forest.

SRS-4106, Managing Upland Forest Ecosystems in the Midsouth.

This unit provides scientific information to understand, manage, and sustain the ecological processes, structures, and benefits of loblolly pine, shortleaf pine, mixed pine-hardwood, and hardwood forests in the uplands of the Midsouth. Research includes the development of:

1. A better understanding of the environmental factors and ecological processes influencing establishment and growth of forest reproduction which is needed to fully develop silvicultural alternatives for upland forests in the Midsouth;
2. Silvicultural alternatives for regenerating and managing upland forests which requires a better understanding of forest stand dynamics, including the role of disturbance; and
3. A better understanding of the effects of silvicultural treatments on forest stands and interactions between stands which is needed to make landscape-level decisions.

Web site for SRS-4106: <http://www.srs.fs.fed.us/4106/>

Our Scientists at Work: Programs, People, Facilities

SRS-4104, SRS-4505, and SRS-4901

Forest Sciences Laboratory
320 Green Street
Athens, GA 30602-2044
(706) 559-4222



The Forestry Sciences Laboratory is on 4 acres of land near the University of Georgia's School of Forest Resources. The facility, containing 17,962 square feet of laboratory space, and 14,000 square feet of office space, consists of two buildings, an insectary, greenhouses, a nursery, a fully equipped woodworking and fabricating shop, and a wood products testing laboratory.

SRS-4104, Disturbance and the Management of Southern Pine Ecosystems. The unit conducts research to sustain and enhance the productivity of southeastern forests, whether intensively cultured or extensively managed. Specific research is being conducted in the areas of forest ecology, fire ecology, smoke management, and harvesting and wood properties of forests of the Piedmont and Atlantic Coastal Plain. The 5,000-acre Hitchiti Experimental Forest near Julietta, GA is the location of the Ernst Brender Demonstration Forest, which hosts approximately 40 workshops and tour groups each year.

SRS-4505, Insects and Diseases of Southern Forests. The unit conducts research to provide the knowledge about insects and microorganisms needed to manage productive, healthy seed orchards, nurseries, plantations, and native forests. Interactions of land use and forest management practices on arthropod populations are studied with regard to their functional role as decomposers, as pollinators of rare plants, and as prey for endangered species, such as the red-cockaded woodpecker. The unit also works to develop control measures for nonnative, invasive species, such as the fungi that cause dogwood anthracnose and butternut canker.

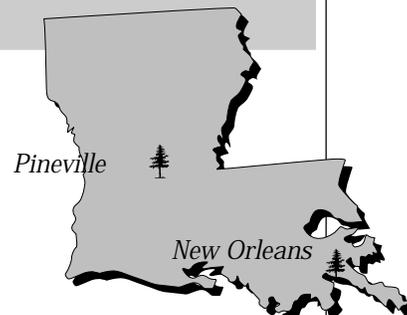
SRS-4901, Assessing Trends, Values, and Rural Community Benefits from Outdoor Recreation and Wilderness in Forest Ecosystems. The unit applies research theory and methodology to assessments of outdoor recreation and wilderness, with emphasis on supply-and-demand trends, economic values, and benefits to rural communities.

Web site for SRS-4901: <http://www.srs.fs.fed.us/recreation/>

Our Scientists at Work: Programs, People, Facilities

SRS-4802

T-10034 U.S. Postal Building
701 Loyola Avenue
New Orleans, LA 70113
(504) 589-6652



SRS-4802, Evaluation of Legal, Tax, and Economic Influences on Forest Resource Management. This is the Forest Service's principal unit concerned with effects of Federal, State and local taxes, laws, and regulations on forestry. The unit also analyzes

export markets for southern softwood products and the economics of innovative silvicultural practices for southern forests.

SRS-4111, SRS-4501, and SRS-4701

Alexandria Forestry Center
2500 Shreveport Highway
Pineville, LA 71360
(318) 473-7215

The Alexandria Forestry Center in Pineville was constructed in 1963 to house the Forest Sciences Laboratory of the Southern Forest Experiment Station (now Southern Research Station), the Supervisor's Office of the Kisatchie National Forest, and Forest Pest Management of State and Private Forestry. The Center is located on about 27 acres and includes an insectary, two greenhouses, a forest products building, and a main office/laboratory building. The nearby Palustris Experimental Forest consists of two separate tracts that total 7,500 acres.

SRS-4111, Ecology and Management of Even-aged Southern Pine Forests. This unit provides fundamental knowledge on the ecology and physiology of

southern pine species and even-aged management options to enhance and sustain the productivity of southern pine ecosystems. The program is the basis for improving our knowl-

edge of the physiological responses to silvicultural treatments during plantation establishment and development.

SRS-4501, Southern Pine Beetle: Ecology, Behavior, and Management.

This unit is responsible for Forest Service research on improved methods for predicting and managing the southern pine beetle through acquisition and use of basic knowledge of its ecology and behavior.

SRS-4701, Utilization of Southern Forest Resources.

This unit defines and applies fundamental chemistry, material science, and engineering principles to the utilization and processing of southern forest resources in an environmentally sound way.

Web site for SRS-4111: <http://www.srs.fs.fed.us/4111/>
 Web site for SRS-4501: <http://www.srs.fs.fed.us/4501/>
 Web site for SRS-4701: http://www.srs.fs.fed.us/4701

Our Scientists at Work: Programs, People, Facilities

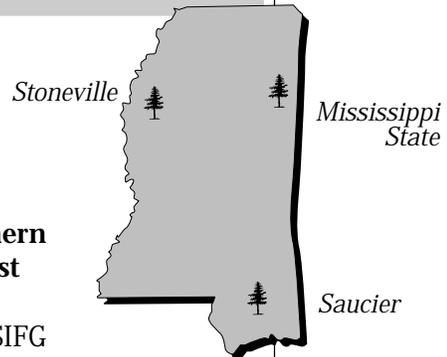
SRS-4153

Harrison Experimental Forest
23332 Highway 67
Saucier, MS 39574-9344
(228) 832-2747

The Southern Institute of Forest Genetics was established July 1, 1954 on the Harrison Experimental Forest, located 25 miles north of Gulfport, MS. The Experimental Forest covers 4,111 acres that typify about 31 million acres of land with similar soils and topography in the South. The Institute is housed in some buildings that date back to the mid-1930's, constructed by the CWA, WPA, and CCC; four new laboratories for molecular genetic analyses on southern pines were recently added to the site.

SRS-4153, Southern Institute of Forest Genetics (SIFG).

Research at the SIFG focuses on developing procedures to improve the health, productivity and genetic diversity of southern forests through better understanding of the genetics, ecology and evolutionary relationships in forest ecosystems.



SRS-4502

P.O. Box 6124
Mississippi State, MS 39762-6124
(601) 325-0199

The Forestry Sciences Laboratory is on a 7-acre tract adjacent to Mississippi State University. The Forest Inventory and Analysis research work unit moved to the site in 1983. Computer facilities include data base management, image analysis, and geographic information systems.

SRS-4502, Wood Products Insect Research.

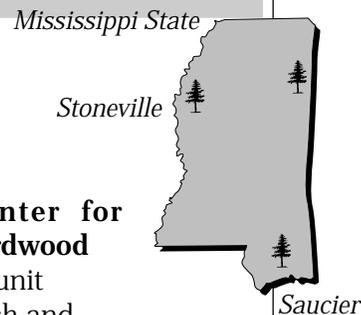
The mission of this unit is to define the role of termites in forest ecosystems, to improve protection of wood against damage, and to understand the impact of termites on forest health. All new termiticides must undergo extensive laboratory and field testing by this unit prior to Environmental Protection Agency registration.

Web site for SRS-4502: www.srs.fs.fed.us/termites/

Our Scientists at Work: Programs, People, Facilities

SRS-4155

Southern Hardwoods Laboratory
P.O. Box 277
Stoneville, MS 38776
(601) 686-3154



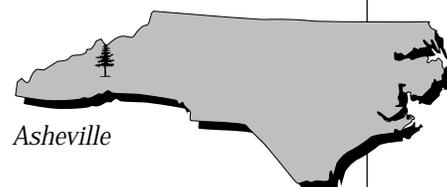
The Southern Hardwoods Laboratory is located on a 3.45-acre site that is part of the Mississippi State Forestry and Agricultural Experiment Station. The 18,000-square-foot building houses offices, a photo lab, and lab facilities for plant pathology, entomology, plant physiology, and soils. The site also has 2,000 square feet of greenhouse space, and separate soils building, and an insectary. The 2,900-acre Delta Experimental Forest, 3 miles north of Stoneville, is the site of numerous research plots.

SRS-4155, Center for Bottomland Hardwood Research. This unit conducts research and technology transfer in management and ecology of bottomland hardwoods, including tree seed technology and regeneration, stand management and forest health, threatened, endangered, and sensitive terrestrial and aquatic fauna, hydrology, and wetlands restoration.

Web site for SRS-4155: <http://www.srs.fs.fed.us/cbhr>

SRS-4801

P.O. Box 2680
200 W.T. Weaver Blvd.
Asheville, NC 28802
(828) 257-4350



The headquarters of the Southern Research Station occupies 11 acres of land leased from the University of North Carolina and houses the Station Director and staff, administrative units, and SRS-4801. A Forest Health unit of the National Forest System's Southern Region is also located at this site.

SRS-4801, Forest Inventory and Analysis. This unit develops, analyzes, and maintains forest resources information for Southern States and con-

ducts research to provide improved inventory and evaluation techniques. In 1996, this unit became part of the Southern Research Station's new Southern Forest Inventory, Monitoring and Analysis Program which consolidates Forest Inventory and Analysis research conducted at Asheville, NC and Starkville, MS, Forest Health Monitoring for Southern States and the Biometrics unit, both in Asheville, NC.

Web site for SRS-4801: <http://www.srsfia.usfs.msstate.edu>

Our Scientists at Work: Programs, People, Facilities

SRS-4101

Bent Creek Experimental Forest
1577 Brevard Road
Asheville, NC 28806
(828) 667-5261



The Bent Creek Experimental Forest is located near Asheville, North Carolina on land that was once part of the Vanderbilt Estate. Today, scientists at this 6,300-acre tract study regeneration of red oak, site classification, and intermediate stand management. The demonstration forest allows resource managers, students, and private landowners to learn the latest forest management practices.

SRS-4101, Ecology and Management of Southern Appalachian Hardwood Forests. This unit's mission is to develop and disseminate the scientific knowledge and silvicultural techniques needed to provide a full range of benefits in Southern Appalachian hardwood forests.

Web site for SRS-4101: <http://www.srs.fs.fed.us/bentcreek/>

SRS-4351

Coweeta Hydrologic Laboratory
3160 Coweeta Lab Road
Otto, NC 28763
(828) 524-2128

Hydrologic Decade, and UNESCO's "Man and the Biosphere" Program.

SRS-4351, Evaluation of Watershed Ecosystem

The Coweeta Hydrologic Laboratory is located in the 5,400-acre Coweeta Basin, near Franklin, NC; watershed responses have been studied here for over 60 years. This world-renowned research operation was selected by the National Science Foundation as one of eleven Long-Term Ecological Research sites, and was included in the International Biological Program, the International

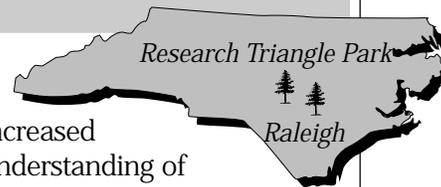
Responses to Natural, Management, and Other Human Disturbances of Southeastern Forests. This unit's mission is to evaluate, explain, and predict how water, soil, and forest resources respond to ecosystem management practices, natural disturbances, and the atmospheric environment; and to identify practices which mitigate impacts on these watershed resources.

More information available at: <http://www.srs.fs.fed.us>

Our Scientists at Work: Programs, People, Facilities

SRS-4852

Southern Global Change Program
 1509 Varisity Drive
 Raleigh, NC 27709
 (919)-515-9849



increased understanding of forest ecosystem

This unit is part of the Air Resources Consortium and is located on the North Carolina State University campus.

SRS-4852, Southern Global Change Program. Through cooperative research efforts and in-house research, this unit is charged with providing

response to global change. Global change impacts include air pollution, current and potential future climate stress, and changing human resource demands. The program develops and evaluates science-based strategies to ensure sustained productivity and ecosystem health.

Web site for SRS-4852: <http://www.sgcp.ncsu.edu/>

SRS-4154, SRS-4803, and SRS-4851

Forestry Sciences Laboratory
 3041 Cornwallis Road, P.O. Box 12254
 Research Triangle Park, NC 27709
 (919) 549-4093

at two locations: Research Triangle Park, NC, and Athens, GA.

The Forestry Sciences Laboratory was built in 1962 on a 26-acre tract donated by the Research Triangle Foundation. A greenhouse, nursery, and service buildings were added later. Its location enables close contact with the forestry schools and libraries at Duke University and North Carolina State University.

SRS-4154, Biological Foundations of Southern Forest Productivity and Sustainability. This unit's mission is to quantify aboveground and belowground processes governing forest productivity and sustainability. This research is conducted by scientists

SRS-4803, Forest Health

Monitoring. This unit monitors the Nation's forests in order to detect unexpected deviation from established baseline conditions or trends, identify cause, and define basic relationships sufficient to predict consequences.

SRS-4851, Economics of Forest Protection and Management. This unit's mission is to analyze the uses and values of forests in the South, including the function of land and resource markets, the effects of social change on forest conditions, measures of sustainable forestry, the formation of values for private and public forests, and the economic and social impacts of forest policies and programs.

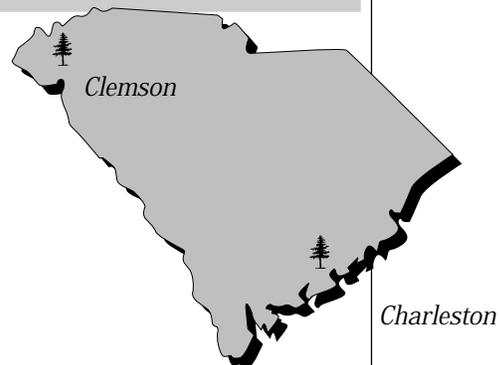
Web site for SRS-4154: <http://www.rtp.srs.fs.fed.us/soils/soilhome.htm>
 Web site for SRS-4803: http://willow.ncfes.umn.edu/fhm/fhm_hp.htm
 Web site for SRS-4851: <http://www.rtp.srs.fs.fed.us/econ/>

Our Scientists at Work: Programs, People, Facilities

SRS-4103

Center for Forested Wetlands Research
 2730 Savannah Highway
 Charleston, SC 29414
 (843) 727-4271

The Center for Forested Wetlands Research is located in Charleston, SC. Facilities include a soil and water laboratory, offices, greenhouses, and a library. The Center also administers the 6,100-acre Santee Experimental Forest, north-east of Charleston.



SRS-4103, Center for Forested Wetlands Research. The specific mission of the Center is to develop, quantify, and synthesize ecological information needed to sustainably manage and restore the structure, functions, and productivity of forested wetland landscapes.

Web site for SRS-4103: www.srs.fs.fed.us/charleston/

SRS-4201

Department of Forest Resources
 Clemson University
 Clemson, SC 29414
 (864) 656-3284

This unit has office and laboratory space at Clemson University's School of Forest and Recreation Resources.

SRS-4201, Endangered, Threatened, and Sensitive Wildlife and Plant Species in Southern Forests. This unit's mission is to determine habitat and population relationships of wildlife and plant species associated with fragmented and isolated forest communities.

Web site for SRS-4201: www.srs.fs.fed.us/4201

Our Scientists at Work: Programs, People, Facilities

SRS-4251

Wildlife Habitat and Silviculture Laboratory
 Box 7600, SFA Station
 506 Hayter Street
 Nacogdoches, TX 75961
 (409) 569-7981



The Nacogdoches Wildlife Habitat and Silviculture Laboratory is located near the 2500-acre Stephen F. Austin Experimental Forest.

SRS-4251, Integrated Management of Wildlife Habitat and Timber Resources. This unit investigates questions concerning wildlife and

habitat interactions. It is the only Forest Service wildlife research unit in the South whose mission focuses on game and nongame species in addition to threatened and endangered species.

More information available at: <http://www.srs.fs.fed.us>

SRS-4202

Department of Fisheries & Wildlife Services
 Virginia Polytechnic Institute & State University
 Blacksburg, VA 24061
 (540) 231-4016



SRS-4202, Coldwater Streams and Trout Habitat in the Southern Appalachians. This unit's mission is to acquire new knowledge about the factors that influence the distribution, abundance, and productivity of trout and other

coldwater fish in the Southern Appalachians and to provide the technical basis for protecting, enhancing, and restoring coldwater streams and their fauna. The Center for Aquatic Technology Transfer is part of this unit.

Web site for SRS-4202: <http://www.trout.forprod.vt.edu/>

SRS-4702

Brooks Forest Products Center
 Virginia Polytechnic Institute & State University
 1650 Ramble Rd. • Blacksburg, VA 24061
 (540) 231-4016

SRS-4702, Integrated Life Cycle of Wood: Tree Quality, Processing, and

Recycling. This unit's mission is to enhance wood resource conservation and sustainability through advanced timber analysis and wood processing, and effective wood product recovery, reuse, and recycling.

Web site for SRS-4702: <http://www.srs4702.forprod.vt.edu/>



The Basics: Your Tax Dollars at Work

Experimental Forests

The SRS maintains 19 experimental forests located on or near National Forest System lands. Scientists in research work units use these as sites for their studies and demonstration projects in conjunction with the managing national forest unit. Experimental forests are designated to represent a specific ecosystem or forest type, and to present opportunities for the study of different approaches to sustaining forested ecosystems. Several of the experimental forests in the South were selected for their potential to demonstrate rehabilitation of deteriorated farm forests and soil resources that occurred during early European settlement and plantation farming of the region.

Among the experiments conducted on these forests are studies on stand management and regeneration; restoration of wildlife and plant populations; watershed management; and the effects of pollution, climate change, and timber harvest. Many experimental forests also provide educational and nonmotorized recreation activities, including interpretation to enhance public understanding of forest management principles. Research on experimental forests plays a vital role in the conservation of America's natural resources.

State	Experimental Forest	National Forest	Acres	Date Established
Alabama	Escambia	___ ¹	2,990	06/14/61
Arkansas	Alum Creek	Ouachita	4,281	04/02/59
	Crossett	Ouachita	1,675	08/27/40
	Henry R. Koen	Ozark	720	09/17/51
	Sylamore	Ozark	4,180	03/28/34
Florida	Chipola	___ ¹	2,760	06/21/61
	Olustee	Osceola	3,135	03/28/34
Georgia	Hitchiti	Oconee	4,602	12/04/61
	Scull Shoals	Oconee	4,487	09/17/38
Louisiana	Palustris	Kisatchie	7,515	07/19/35
Mississippi	Delta	___ ¹	2,580	06/14/61
	Harrison	DeSoto	4,111	07/19/34
	Tallahatchie	Holly Springs	4,569	04/12/50
North Carolina	Bent Creek	Pisgah	5,242	06/25/27
	Blue Valley	Nantahala	1,400	06/23/64
	Coweeta	Nantahala	5,482	03/28/34
South Carolina	John C. Calhoun	Sumter	5,082	10/08/47
	Santee	Francis-Marion	6,000	07/06/37
Texas	Stephen F. Austin	Angelina	2,499	06/28/61

¹ Private land